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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/822,292	04/02/2001	Charles M. Link II	BLL-0217	8769	•
36192 CANTOR COL	7590 09/13/200 LBURN LLP - BELLS		EXAMINER]
55 GRIFFIN ROAD SOUTH			NGUYEN, DUC M		
BLOOMFIELD, CT 06002		·	ART UNIT	PAPER NUMBER	
			2618		
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			09/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•		Application No.	Applicant(s)			
Office Action Summary		09/822,292	LINK ET AL.			
		Examiner	Art Unit			
		Duc M. Nguyen	2618			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover shee	t with the correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUM 36(a). In no event, however, may will apply and will expire SIX (6), cause the application to become	JNICATION. By a reply be timely filed MONTHS from the mailing date of this communication. BY ABANDONED (35 U.S.C. § 133).			
Status			·			
1)🖂	Responsive to communication(s) filed on 11 Ju	<u>uly 2007</u> .				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.			
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-9,12,14-17,19-24,27,28,40-48,51,5</u> . 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>1-9, 12, 14-17, 19-24, 27-28, 40-48, 5</u> . Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration. 51, 53-55, 57-60, 63 is	s/are rejected.			
Applicat	ion Papers		•			
9)	The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) acc					
	Applicant may not request that any objection to the					
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex					
Priority	under 35 U.S.C. § 119					
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	ts have been received. Is have been received Irity documents have but (PCT Rule 17.2(a)).	in Application No een received in this National Stage			
Attachmei	nt(s)					
1) Noti 2) Noti 3) Info	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper 5) Notice	iew Summary (PTO-413) No(s)/Mail Date e of Informal Patent Application :			

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DETAILED ACTION

This action is in response to the applicant's response filed on 7/11/07. Claims 1-9, 12, 14-17, 19-24, 27-28, 40-48, 51, 53-55, 57-60, 63 are now pending in the present application. **This action is made final.**

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-8, 14-17, 20-24, 40-47, 51, 53-55, 57-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daly (US Pat No. 6,122,503) in view of Leung (US 6,195,546), Josenhans et al (US 5,953,653) and Comer (US 6,718,177).

Regarding claim 1, Daly discloses a method for updating the memory (internal database) of a mobile phone via over-the-air programming (OTAP) using SMS messages which would include all the claimed limitations (see col. 3, line 65 - col. 4, line 48), comprising:

receiving a first information relating to a new or revised (update) agreement
 between a wireless service provider and a subscription company servicing the
 first wireless device, the first item of information corresponding to at least one
 wireless service provider that is associated with a local calling area as

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claimed (see col. 5, line 52 - col. 6, line 9 and col. 3, lines 47-48);

- targeting a set of subscribers (subset) associated with wireless devices for receiving the first information as claimed (see col. 4, lines 14-18);
- waiting for a second item of information related to autonomous registration event by the wireless device (see col. 5, line 52 col. 6, line 9 and col. 10, lines 1-15);
- receiving a second information related to autonomous registration event
 (active or inactive) via IS-41 link (see col. 5, line 52 col. 6, line 9 and col.
 10, lines 1-15);
- transmitting a third information (updates information regarding system operator or service providers in SMS format) as claimed (see col. 5, line 52 col. 6, line 9 and col. 10, lines 1-15);

As to the newly added limitation regarding tracking the pendency of the entry in the pending database for determining a period of time elapsed since the transmitting of a third item of information where no acknowledgement has been received from the wireless device, it is noted that when transmitting an OTAP message to the wireless device, it would have been obvious to one skilled in the art to set a timeout period for receiving an acknowledgement message from the wireless device as disclosed by Leung (see col. 10, lines 41-49, col. 12, lines 33-39), in order to determine the success/failure of the transmitted message. Therefore, in view of Leung, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Leung's teaching to Daly, for providing a timeout timer in Daly as well, for

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determining a period of time elapsed since the transmitting of a third item of information (OTAP message) where no acknowledgement has been received from the wireless device, in order to determine the success/failure of the transmitted message.

As to the newly added limitation regarding a protocol analysis for monitoring and detecting a registration signal, it is noted that since **Daly** discloses that "when the MSC receives the registration it sends an IS-41 registration notice (REGNOT) to the HLR" (see **col. 10**, **lines 1-4**), one skilled in the art would recognize that the MSC in **Daly** would obvious utilize a device similar to the protocol analyzer as disclosed by **Josenhans**, for monitoring and detecting registration request messages (see **col. 4**, **lines 50-56**). Therefore, in view of **Josenhans**, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify **Daly** for utilizing a protocol analyzer in the MSC in Daly as well, in order to monitor and detect registration request messages, for transmitting REGNOT messages to the HLR for evaluations.

As to the newly added limitation regarding a "type and a model number of the wireless device", it is noted that since **Daly** discloses that when a subscriber supplies subscription information to a wireless carrier, this subscription information would include the phone type and ESN number (see **col. 3, lines 36-38**), and since the MIN and/or ESN number would typically comprise the manufacturer and model number as disclosed by **Comer** (see **col. 7, lines 19-43**), it is clear that a third information (updates information regarding system operator or service providers in SMS format) as mentioned by **Daly** in **col. 5, line 52 – col. 6, line 9 and col. 10, lines 1-15** would

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associated with the MIN and/or ESN number and would associated with a "type and a model number of the wireless device" as claimed.

Regarding claims 2-8, they are rejected for the same reason as set forth in claim 1 above. In addition, Daly further discloses

- converting first information to SMS message (see col. 10, lines 1-15);
- comparing second information with a record in a concerned data base (see
 col. 6, lines 20-63);
- a state of record (pending or waiting indicator, see col. 6, lines 20-63);
- retrieve message for a wait state record (see col. 6, lines 20-63 and col. 10, lines 1-15)
- assembling third information based on characteristics of the wireless device (see col. 6, lines 20-63);
- third information is an SMS message (see col. 10, lines 1-15);
- create an entry in a pending database as claimed (clear indicators, see col. 3,
 lines 61-62);

Regarding claims **14-17**, the claims are interpreted and rejected for the same reason as set forth in claims 1-8 above.

Regarding claims **40-47**, the claims are interpreted and rejected for the same reason as set forth in claims **1-9**, **13** above, respectively.

Regarding claims **20-24**, the claims are rejected for the same reason as set forth in claim 1 above. In addition, although **Daly** fails to disclose the centralized database of the HLR is organized into specific databases (pending, concerned and history

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databases) as claimed, it would have been obvious to one skilled in the art of databases to modify **Daly** to organize databases into specific databases as claimed, for easy management of databases.

Regarding claim **55**, the claim is rejected for the same reason as set forth in claim 53 above. In addition, **Daly** discloses the wireless device transmits acknowledgement as claimed (see **col. 9**, **lines 33-35**).

Regarding claim **26**, the claim is rejected for the same reason as set forth in claim 11 above.

Regarding claims **49-51**, the claims are interpreted and rejected for the same reason as set forth in claims **10-12** above.

Regarding claims **53**, **57**, the claims are rejected for the same reason as set forth in claim 1 above. In addition, although **Daly** fails to disclose the centralized database of the HLR is organized into specific databases (pending, concerned and history databases) as claimed, it would have been obvious to one skilled in the art of databases to modify **Daly** to organize databases into specific databases as claimed, for easy management of databases.

Regarding claim **54**, the claim is rejected for the same reason as set forth in claim 53 above. In addition, Daly as modified would obviously disclose the autonomous registration includes transmitting a mobile identification number, an electronic serial nmaaber and a point code to the system; wherein in response to the transmitting, the mobile identification number is compared with information contained in the concerned

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database to determine whether the wireless device is identified as waiting for the updated information (see col. 9, line 50 – col. 10, line 60).

Regarding claims **58-59**, the claims are rejected for the same reason as set forth in claim 53 above. In addition, Daly as modified would obviously disclose the step of retrieving a SMS message as claimed (see col. 7, lines 58-65).

Regarding claim **60**, the claim is rejected for the same reason as set forth in claim 53 above. In addition, it is clear that Daly would obviously disclose the step of receiving autonomous registration from the network as claimed (see col. 10, lines 1-15).

Claims 9, 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daly in view of Josenhans and Leung and further in view of Seazholtz et al (US 5,790,952).

Regarding claims **9**, **48**, **Daly** as modified would disclose all the claimed limitations, see claims **4**, **44**, except for an unable state after a specified number of attempts has been made unsuccessful. However, Seazholtz discloses a method for discarding data and marking a mobile as unable after a specified number of attempts has been made unsuccessful (see col. 34, lines 59-64). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate **Seazholtz's** teaching to **Daly**, for providing a maximum number of attempts in **Daly** as well, for discarding data and marking a mobile as unable after a specified number of attempts has been made unsuccessful, in order to conserve bandwidths and resources (i.e, avoid keep transmitting failed attempts).

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Claims 9, 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daly in view of Josenhans and Leung and further in view of D' Avello et al (US 4,831,647).

Regarding claims **9**, **48**, **Daly** as modified would disclose all the claimed limitations, see claims **4**, **44**, except for an unable state after a specified number of attempts has been made unsuccessful. However, **D' Avello** teaches a message delivery method wherein an error status is flagged after a predetermined number of attempts has been made (see Fig. 12 B). Therefore, in view of **D'Avello**, it would have been obvious to one skilled in the art at the time the invention was made to set a maximum number of attempts (or retries) in **Daly** as well, and would set an "error" or "unable" status flag to indicate such status if the maximum number of attempts has been made, to conserve bandwidths and resources (i.e, avoid keep transmitting failed attempts).

5. Claims **12, 19, 27, 63** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Daly** in view of **Leung** and **Josenhans**, and further in view of **McConnell** (US **6,418,306**).

Regarding claims 12, 19, 27, 63, Daly as modified would disclose all the claimed limitations, see claim 1 above, except for the limitation regarding SS-7 data link.

However, it is noted that since the IS-41 or SS-7 links are both known for connecting links between switching points in a wireless network as disclosed by McConnell (see

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col. 4, lines 33-40), it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate McConnell's teaching to Daly to use SS7 link in place of IS-41 as well, for utilizing advantages provided by SS7 such as flexibility and cost. Therefore, in order to receive registration notice, it is clear that a filter would obviously be used in order to filter registration messages from raw SS7 data.

Response to Arguments

6. Applicant's arguments with respect to claims 1-9, 12, 14-17, 19-24, 27-28, 40-48, 51, 53-55, 57-60, 63 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any response to this final action should be mailed to:

Box A.F.

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(571) 273-8300 (for **formal** communications intended for entry)

(571)-273-7893 (for informal or draft communications).

Hand-delivered responses should be brought to Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

Any inquiry concerning this communication or communications from the examiner should be directed to Duc M. Nguyen whose telephone number is (571) 272-7893, Monday-Thursday (9:00 AM - 5:00 PM).

Or to Matthew Anderson (Supervisor) whose telephone number is (571) 272-4177.

Helyne

Duc M. Nguyen, P.E.

Aug 24, 2007